

CLAIMS

1. A method of enhancing signals in a mobile telecommunications system, the system comprising a base station and first and second receivers within a reception zone of the base station, the method including:
 - 5 a) receiving a plurality of first signals at the first receiver, the first receiver having a good quality communications link with the base station;
 - b) receiving a plurality of second signals at the second receiver;
 - c) correlating the received signals from both receivers to provide an estimated correlation therefor;
 - 10 d) selecting areas from within the estimated correlation;
 - e) creating a replica of unwanted signals using said selection and said plurality of first signals; and
 - f) enhancing said plurality of second signals by eliminating said replica therefrom.
- 15 2. A method according to claim 1, wherein the estimated correlation comprises a correlation of propagation delay and frequency shift for the received signals.
3. A method according to claim 1 or 2, wherein step f) includes correlating said enhanced plurality of second signals with said plurality of first signals to produce an enhanced correlation.
- 20 4. A method according to claim 3, wherein the enhanced correlation comprises a correlation of propagation delay and frequency shift for the enhanced plurality of second signals and the plurality of first signals.